1. Modify the following texts so that the statements are true (choose the correct word from brackets).

A resistive touchscreen consists of layers, out of which the flexible plastic and glass layers are two important electrically layers.

A capacitive touchscreen also consists of layers of glass, which are coated with such as Indium Tin Oxide.

1. Write the gesture types based on the notion of motion:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose two main approaches used in Recommendation System scheme:

□ linear regression

□ content-based

□ random recommendation

□ collaborative filtering

1. Write at least three applications using gesture control (except TV control):

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which are the technologies used in BCI solutions?

□ transcranial magnetic stimulation

□ electrocardiography

□ electroencephalography

□ electrooculography

□ electromyography

1. What statements regarding eye tracking are true?

□ can be used for mouse navigation

□ solutions for HMD (head mounted displays) are not yet available

□ there exist mobile binocular solutions

□ eye tracker can be mounted below screen/monitor

1. Complete the paragraph with correct words

In a microphone, a \_\_\_\_\_\_\_\_\_\_\_\_\_ reacts to \_\_\_\_\_\_\_\_\_\_\_ waves with vibration, which is converted into \_\_\_\_\_\_\_\_\_\_\_\_\_ signal. In a \_\_\_\_\_\_\_\_\_\_\_\_ microphone, a diaphragm serves as one of the condenser plates. This microphone \_\_\_\_\_\_\_\_\_\_\_ power source. A dynamic microphone uses \_\_\_\_\_\_\_\_\_\_\_ inside a coil to produce electrical current when the membrane moves. Such microphone \_\_\_\_\_\_\_\_\_\_\_\_ external power source.